SPACE MATERIAL RECORDING EXPERIENCE: NEW FEATURES AND REGULATORY CONSIDERATIONS

Vanessa Cocheteau(1), Hélène Combes(2), Christian Durin(2)
(1) CELAD, 48 Route de Lavaur, 31130 Balma, vanessa.cocheteau@cnes.fr
(2) CNES, 18 avenue Edouard Belin, F31401 Toulouse Cedex 9, France

1100 materials (150 with risks)
552 suppliers
Processes ongoing
250 personal accounts

What kind of data are stored?
The data linked to materials and processes for satellites, launchers and balloons

Who can enter data?
MATREX is a collaborative tool. Any user can propose data (suppliers, materials, engineers, projects, teams, scientists)

How can I be sure that the data is reliable?
The data are validated by materials experts. They originate from recent tests or lessons learned, anomalies, applications on projects.

What are the future features?
Access of the tool will be extended to ESA partners in the frame of ESMDB. Projects, processes and suppliers data will be accessible by beginning of 2019.

Profit and gain?
Save time to access data, less tests to perform. It is valuable to access to a central capitalisation tool and avoid duplication on personal databases. You can access to a synthetic vision of materials risks useful for space activities: technical, regulatory (REACh, export control, French Space Act…), obsolescence, promotion of european sources.

Who can access to the tool?
The tool is devoted to CNES partners (effective collaboration with CNES)

How can I access to the tool?
It is very easy. MATREX is available on internet: https://matrex.cnes.fr. You have to ask a personal account online (login, password)

French Space Act
Export control
Projects applications

New Material and Process
Space materials and Processes
Risks (technical, regulatory, obsolescence)
Impacted materials and processes

Materials
Processes
Suppliers

Properties
Substances
Risks

Harmonized naming defined by the European Space Material DataBase Steering Board
Automatic crosscheck

Project

The more collaborative, the more completeness
Reactivity, active support

« The more collaborative, the more completeness »

CElad CONTRIBUTION

Assistance for project management: Rating for the implement of the tool, New features, Specifications, Following developments
Data capitalisation: Projects applications, Technical data on materials (properties…), Substances, materials and processes management
Identification of regulatory impacts: REACh, French Space Act…

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